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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/053,765	01/18/2002	William Ho Chang	FLEX 2400	5434	
7812	7590 07/13/2006		EXAM	INER	
SMITH-HILL AND BEDELL, P.C. 16100 NW CORNELL ROAD, SUITE 220			POON, KING Y		
	ORNELL ROAD, SUITE 220 N, OR 97006		ART UNIT	PAPER NUMBER	
	•		2625		
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/053,765	CHANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	King Y. Poon	2625				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	l.  lely filed  the mailing date of this communication.  O (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on <u>24 Ag</u> This action is <b>FINAL</b> . 2b)⊠ This     Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final.  nce except for formal matters, pro					
Disposition of Claims						
4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) 20 and 21 is/are without 5) Claim(s) is/are allowed.  6) Claim(s) 1-19 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or	drawn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 18 January 2002 is/are:  Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original of origina	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary ( Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

### **DETAILED ACTION**

1. Claims 20, 21 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 4/24/2006.

## Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

# Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-5 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 1-5 are drawn to functional descriptive material NOT claimed as residing on a computer readable medium. MPEP 2106.IV.B.1(a) (Functional Descriptive Material) states:

"Data structures not claimed as embodied in a computer-readable medium are descriptive material per se and are not statutory because they are not capable of causing functional change in the computer."

"Such claimed data structures do not define any structural or functional interrelationships between the data structure and other claimed aspects of the invention which permit the data structure's functionality to be realized."

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Claims 1-5, while defining a computer readable medium and software, do not define a "the software embodied in a computer-readable medium" and is thus non-statutory for that reasons.

The examiner suggests amending the claim to "A computer-readable medium encoded with the software" in order to make the claim statutory.

"In contrast, a claimed computer-readable medium encoded with the data structure defines structural and functional interrelationships between the data structure and the computer software and hardware components which permit the data structure's functionality to be realized, and is thus statutory." - MPEP 2106.IV.B.1(a)

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 3, 5-8, 10, 12-16, 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lobiondo (US 5,287,194) in view of Gase (US 6,856,430).

Regarding claims 1: Lobiondo teaches in a computer readable medium (column 3,lines 40-42, a software inherently stored in a computer readable medium), an information apparatus (the computer that scheduler is located, column 3, lines 43-44) data output software for managing output of content to a selected output device (column 3, lines 45-50), comprising: software for accessing at least part of said content (portion of the job, column 6, lines 50-55-68); software for at least one attribute corresponding to

the one or more output devices (column 3, lines 64-68); software for selecting one of said one or more output devices for rendering content based at least in part on the received attributes (column 4, lines 45-69); software for conforming at least part of the content into one or more output images with the at least one attribute related at least in part to the selected output device (column 4, lines 50-68); software for generating at the information apparatus an output data that includes said one or more output images; and software for delivering the output data for rendering by the selected output device (column 4, lines 55-68).

Lobiondo does not specifically teach establishing a communication channel between the information apparatus and one or more output devices for obtaining the attribute of the printer.

However, Lobiondo teaches scheduler is responsive to capability of the printer (column 3,lines 64-65, and the information is located on the printer column 4, lines 5-10).

Therefore, it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have provide a communication channel between the information apparatus and one or more output devices for obtaining the attribute of the printer that is store in the printer.

Lobiondo does not teach generating at the information apparatus an output data that includes said one or more output images.

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Gase, in the same area of distribute type of printing from document created by a host computer (column 4, lines 25-30), teaches generating at the information apparatus an output data that includes said one or more output images (column 5, lines 14-20).

Therefore, it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified Lobiondo to include: generating at the information apparatus an output data that includes said one or more output images such that 1) it would have allowed the server to process the print job and send it to the printer with minimum interruption (column 6, lines 55-60, Gase); and 2) it would have allowed Lobiondo to correctly schedule the print job and to avoid the situation that a print job can not be printed due to the printer's incapable of printing the print job during print job execution (column 1, lines 45-65, Gase).

Regarding claim 3: Lobiondo teaches discovering the selected output device as one of one or more output devices that are discovered by the information apparatus as being available for rendering the output content (column 2, line 53).

Regarding claim 5: See discussion of claim 1, the printer files of column 3, lines 65-68 is being viewed as the printer profile.

Regarding claim 6: Lobiondo teaches wherein the output device is one of a plurality of output devices and the method includes the step of selecting the output device from said plurality of output devices (column 2, lines 50-68).

Regarding claim 7: Lobiondo teaches obtaining image attributes that include one or more of resolution, color space, output size, resolution, bit depth, number of color

channels, compression method, an image format indicator, and rendering intent (column 4, lines 49-52, column 3, lines 50-55).

Regarding claim 8: Gase teaches encoding said one or more output images with mixed raster content encoding (116, fig. 4).

Regarding claims 10, 16: Please see discussion of claim 1.

Rendering content or information related to rendering or rasterization parameters are being viewed as the colors, graphics, or fonts of column 37-45, Gase that is to be render by the printer of 12, fig. 2 of Gase. Lobiondo teaches not all such color or graphic can be rendered by the printer (column 4, lines 40-52, column 3, lines 50-65).

Regarding claim 12: Lobiondo teaches wherein the output device is one of a plurality of output devices and the method includes the step of selecting the output device from among said plurality of output devices (column 4, lines 45-68).

Regarding claim 13: Lobiondo teaches wherein the output device is one of a plurality of output devices and the step of receiving at least an indication includes receiving at least an indication from one or more output devices related to rendering the content at the output devices respectively (column 3, lines 64-65).

Regarding claim 14: Lobiondo teaches obtaining, as said one or more rasterization parameters, one or more of resolution, color space, output size, resolution, bit depth, and number of color channels (column 4, lines 49-52, column 3, lines 50-55).

Regarding claim 15: Lobiondo teaches in which the conforming of at least part of the content includes one or more of a color correction operation, a color matching operation, a color management operation, a scaling operation, an interpolation

operation, a color space conversion, a compression, a decompression, a segmentation, a de-segmentation, a storing, a retrieving and a halftoning operation (column 5, lines 15-25).

Regarding claim 18: Lobiondo teaches conforming at least part of the content with rasterization parameters that include one or more of resolution, color space, output size, resolution, bit depth, and number of color channels (column 4, lines 49-52, column 3, lines 50-55).

6. Claims 2, 11, 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lobiondo (US 5,287,194) in view of Gase (US 6,856,430) as applied to claims 1, 10, 16 above, and further in view of Buckley (US 6,542,173).

Regarding claims 2, 11, 17: Lobiondo does not teach in which the software for establishing a communication channel includes software for establishing a wireless communication channel.

Buckley, in the same area of converting document data to be printed by printer, teaches establishing wireless communication/short range (infrared) between client, print server and printer (column 6, lines 1-8, column 5, lines 32-35, column 5, lines 55-60).

Therefore, it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified Lobiondo to include: the software for establishing a communication channel includes software for establishing a wireless communication/short range channel to: 1) increase system versatility, 2) eliminate all

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the spaces/room for connecting cables and 3) allowed Lobiondo's invention to be used in all kind of network system as taught by Buckley, column 6, lines 1-8).

7. Claims 4, 9, 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lobiondo (US 5,287,194) in view of Gase (US 6,856,430) as applied to claims 1, 5, 16 above, and further in view of Freedman (US 4,839,829).

Regarding claims 4, 9, 19: Lobiondo does not teach providing payment information over the communication channel as compensation for the rendering of the content by the selected output device, in the detailed description.

However, Lobiondo, column 1, lines 13-32, teaches "providing payment information over the communication channel as compensation for the rendering of the content by the selected output device" is well known in the art and was taught by Freedman.

Therefore, it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified Lobiondo to include: providing payment information over the communication channel as compensation for the rendering of the content by the selected output device because: 1) a person with ordinary skill in the art would like to be compensated for the print job service provided and 2) a person that invest in a print shop would like the price being confirmed before the print job is printed to avoid arguments.

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### Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to King Y. Poon whose telephone number is 571-272-7440. The examiner can normally be reached on Mon-Fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached on 571-272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 7, 2006

KING Y. POON PRIMARY EXAMINER